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## U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

## DISCLOSURE **STATEMENT**

Docket Number:

12253/14

Application Number

Filing Date

Examiner

Art Unit

10/752,654

January 6, 2004

To be assigned

1651

Invention Title

Inventor(s)

**4-THIO COUMARINS** 

JIE WU et al.

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Sir:

- In accordance with the duty of disclosure under 37 C.F.R. § 1.56 and in conformance with the 1. procedures of 37 C.F.R. §§ 1.97 and 1.98 and M.P.E.P. § 609, attorneys for Applicants hereby bring the attached references to the attention of the Examiner. These references are listed on the attached modified PTO Form No. 1449. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom. The filing of this Information Disclosure Statement and the enclosed PTO Form No. 1449, shall not be construed as an admission that the information cited is prior art, or is considered to be material to patentability as defined in 37 C.F.R. § 1.56(b).
- **2**. A copy of each patent, publication or other information listed on the modified PTO form 1449 is enclosed unless otherwise indicated on the attached PTO 1449 form.

Dated: June 8,2004

By:

Michael K. I

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT PTO-1449

DOCKET NO. 12253/14	SERIAL NO. 10/752,654	
APPLICANT Wu et al.		
FILING DATE	GROUP	

1651

**U. S. PATENT DOCUMENTS** EXAMINER CLASS SUBCLASS FILING **PATENT** PATENT INITIAL NUMBER DATE NAME DATE 5,681,968 Oct. 28, 1997 Alvarado et al. 5,759,959 Jun. 2, 1998 Alvarado et al. 5,808,105 Sep. 15, 1998 Alvarado et al. 6,034,121 Mar. 7, 2000 O'Mahony et al.

January 6, 2004

OTHER DOCUMENTS EXAMINER AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC. **INITIAL** Martin Kovic, "Synthesis of Coumarin Sulfonamides and Sulfonylurea," Arkivoc, 2001, part (iv), pages 100-108 Parfenov et al., Khim. Gererotsikl. Soedin., 1991, 8, 1032-1037 Wu, J. et al., "Synthesis of 4-Substituted Coumarins via the Palladium-Catalyzed Cross-Couplings of 4-Tosylcoumarins with Terminal Acetylenes and Organozinc Reagents," J. Org. Chem. 2001, 66, 3642-3645 Laurin, P. et al., "Synthesis and In Vitro Evaluation of Novel Highly Potent Cournarin Inhibitors of Gyrase B," Bioorg. Med. Chem. Letters 9, 1999, pages 2079-2084 Appendino, G. et al., "A Straightforward Entry into Polyketide Monoprenylated Furanocoumarins," J. Nat. Prod. 1999, 62, pages 1627-1631 Guillier et al., "Linkers and Cleavage Strategies in Solid-Phase Organic Synthesis and Combinatorial Chemistry" Chem. Rev. 2000, 100, 2091-2157 Sternson et al., "Split-Pool Synthesis of 1, 3-Dioxanes Leading to Arrayed Stock Solutions of Single Compounds Sufficient for Multiple Phenotypic and Protein-Binding Assays," J. Am. Chem. Soc. 2001, 123, pages 1740-1741 Blackwell et al., "Exploiting Site-Site Interactions on Solid Support to Generate Dimeric Molecules," Organic Letters, 2001, Vol. 3, No. 8, pages 1185-1188 Pelish et al., "Use of Biomimetic Diversity-Oriented Synthesis to Discover Galanthamine-Like Molecules with Biological Properties Beyond Those of the Natural Product," J. Am. Chem. Soc. 2001, 123, 6740-6741 Tallarico et al., "An Alkylsilyl-Tethered, High-Capacity Solid Support Amenable to Diversity-Oriented Synthesis for One-Bead, One-Stock Solution Chemical Genetics," J. Comb. Chem. 2001, 3, pages 312-318 Greene, T. W. et al., "Protective Groups in Organic Synthesis," 2nd ed., Wiley: New York, 1991 Remington's Pharmaceutical Sciences, "The Science and Practice of Pharmacy," 19. Ed. Mack Publishing Company, Easton, PA., 1995 Ross et al., "Quantitation of Hepatitis C Virus RNA by Third Generation Branched Dna-based Signal Amplification Assay," J. Virological Methods, 2002, 101, pages 159-168 Korba, B. E. et al., "Use of a Standardized Cell Culture Assay to Assess Activities of Nucleoside Analogs Against Hepatitis B Virus Replication," Antiviral Research, 1992, 19, pages 55-70 Blight et al., "Efficient Initiation of HCV RNA Replication in Cell Culture," Science, December 8, 2000, Vol. 290, pages 1972-1974 **EXAMINER** DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.